EAST SEARCH

2/5/04

L#	Hits	Search String	Databases
L1	2142	visual$5 and (object$1 same track$5 same location$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L2	137	1 and probabilit$5 and likelihood	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

Results of search set L2:

US 6671818 B1	Problem isolation through translating and filtering events into a standard object format in a network based supply chain	20031230	714/4
US 6668203 B1	State machine analysis of sensor data from dynamic processes	20031223	700/65
US 6643387 B1	Apparatus and method for context-based indexing and retrieval of image sequences	20031104	382/107
US 6640304 B2	Systems and methods for secure transaction management and electronic rights protection	20031028	713/193
US 6636174 B2	System and method for detection and tracking of targets	20031021	342/195
US 6633878 B1	Initializing an ecommerce database framework	20031014	707/100
US 6628821 B1	Canonical correlation analysis of image/control-point location coupling for the automatic location of control points	20030930	382/155
US 6609128 B1	Codes table framework design in an E-commerce architecture	20030819	707/10
US 6606744 B1	Providing collaborative installation management in a network-based supply chain environment	20030812	717/174
US 6601233 B1	Business components framework	20030729	717/102
US 6600418 B2	Object tracking and management system and method using radio-frequency identification tags	20030729	340/572.1
US 6594629 B1	Methods and apparatus for audio-visual speech detection and recognition	20030715	704/251
US 6580496 B2	Systems for CMOS-compatible three-dimensional image sensing using quantum efficiency modulation	20030617	356/5.1
US 6577936 B2	Image processing system for estimating the energy transfer of an occupant into an airbag	20030610	701/45
US 6529809 B1	Method of developing a system for identifying the presence and orientation of an object in a vehicle	20030304	701/45
US 6526352 B1	Method and arrangement for mapping a road	20030225	701/213
US 6523027 B1	Interfacing servers in a Java based e-commerce architecture	20030218	707/4
US 6515740 B2	Methods for CMOS-compatible three-dimensional image sensing using quantum efficiency modulation	20030204	356/141.1
US 6502082 B1	Modality fusion for object tracking with training system and method	20021231	706/16

US 6499025 B1	System and method for tracking objects by fusing results of multiple sensing modalities	20021224	706/52
US 6456239 B1	Method and apparatus for locating mobile tags	20020924	342/463
US 6445810 B2	Method and apparatus for personnel detection and tracking	20020903	382/115
US 6427140 B1	Systems and methods for secure transaction management and electronic rights protection	20020730	705/80
US 6418424 B1	Ergonomic man-machine interface incorporating adaptive pattern recognition based control system	20020709	706/21
US 6405132 B1	Accident avoidance system	20020611	701/301
US 6400828 B2	Canonical correlation analysis of image/control-point location coupling for the automatic location of control points	20020604	382/100
US 6389402 B1	Systems and methods for secure transaction management and electronic rights protection	20020514	705/51
US 6388569 B1	Electronic locating methods	20020514	340/505
US 6363488 B1	Systems and methods for secure transaction management and electronic rights protection	20020326	713/201
US 6353679 B1	Sample refinement method of multiple mode probability density estimation	20020305	382/228
US 6314204 B1	Multiple mode probability density estimation with application to multiple hypothesis tracking	20011106	382/228
US 6295367 B1	System and method for tracking movement of objects in a scene using correspondence graphs	20010925	382/103
US 6292830 B1	System for optimizing interaction among agents acting on multiple levels	20010918	709/224
US 6292136 B1	Multi target tracking initiation with passive angle measurements	20010918	342/432
US 6285319 B1	Method for reducing geometrical dilution of precision in geolocation of emitters using phase circles	20010904	342/449
US 6263088 B1	System and method for tracking movement of objects in a scene	20010717	382/103
US 6253193 B1	Systems and methods for the secure transaction management and electronic rights protection	20010626	705/57
US 6249252 B1	Wireless location using multiple location estimators	20010619	342/450
US 6247002 B1	Method and apparatus for extracting features characterizing objects, and use thereof	20010612	706/20
US 6237786 B1	Systems and methods for secure transaction management and electronic rights protection	20010529	213/153
US 6236736 B1	Method and apparatus for detecting movement patterns at a self-service checkout terminal	20010522	382/103
US 6188777 B1	Method and apparatus for personnel detection and tracking	20010213	382/103
US 6188776 B1	Principle component analysis of images for the automatic location of control points	20010213	382/100
US 6121926 A	Radio geo-location system with advanced first received wavefront arrival determination	20000919	342/450

US 6081750 A	Ergonomic man-machine interface incorporating adaptive pattern recognition based control system	20000627	700/17
US 6057756 A	Electronic locating systems	20000502	340/505
US 5995046 A	Radio geo-location system with advanced first received wavefront arrival determination	19991130	342/450
US 5991701 A	Method for improved instantaneous helical axis determination	19991123	702/150
US 5982891 A	Systems and methods for secure transaction management and electronic rights protection	19991109	705/54
US 5961571 A	Method and apparatus for automatically tracking the location of vehicles	19991005	701/207
US 5954674 A	Apparatus for gathering biomechanical parameters	19990921	600/594
US 5949876 A	Systems and methods for secure transaction management and electronic rights protection	19990907	705/80
US 5926568 A	Image object matching using core analysis and deformable shape loci	19990720	382/217
US 5920477 A	Human factored interface incorporating adaptive pattern recognition based controller apparatus	19990706	382/181
US 5920287 A	Radio location system for precisely tracking objects by RF transceiver tags which randomly and repetitively emit wideband identification signals	19990706	342/450
US 5917912 A	System and methods for secure transaction management and electronic rights protection	19990629	713/187
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US 5903454 A	Human-factored interface corporating adaptive pattern recognition based controller apparatus	19990511	700/83
US 5901246 A	Ergonomic man-machine interface incorporating adaptive pattern recognition based control system	19990504	382/209
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US 5891060 A	Method for evaluating a human joint	19990406	600/595
US 5875108 A	Ergonomic man-machine interface incorporating adaptive pattern recognition based control system	19990223	700/17
US 5845009 A	Object tracking system using statistical modeling and geometric relationship	19981201	382/228
US 5801943 A	Traffic surveillance and simulation apparatus	19980901	701/117
US 5798693 A	Electronic locating systems	19980825	340/10.33
US 5786764 A	Voice activated electronic locating systems	19980728	340/572.4
US 5774357 A	Human factored interface incorporating adaptive pattern recognition based controller apparatus	19980630	713/600
US 5771306 A	Method and apparatus for extracting speech related facial features for use in speech recognition systems	19980623	382/100

US 5760774 A	Method and system for automatically consolidating icons into a master icon	19980602	345/835
US 5747719 A	Armed terrorist immobilization (ATI) system	19980505	89/1.1
US 5680481 A	Facial feature extraction method and apparatus for a neural network acoustic and visual speech recognition system	19971021	382/190
US 5621858 A	Neural network acoustic and visual speech recognition system training method and apparatus	19970415	704/232
US 5606609 A	Electronic document verification system and method	19970225	713/179
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US 5458041 A	Air defense destruction missile weapon system	19951017	89/1.11
US 5341142 A	Target acquisition and tracking system	19940823	342/64
US 5305430 A	Object-local sampling histories for efficient path tracing	19940419	345/427
US 5268844 A	Electronic digital position and navigational plotter	19931207	701/200
US 5227874 A	Method for measuring the effectiveness of stimuli on decisions of shoppers	19930713	705/10
US 5020411 A	Mobile assault logistic kinetmatic engagement device	19910604	89/1.11
US 20040016870 A1	Object detection system for vehicle	20040129	250/208.1
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US 20040001143 A1	Speaker detection and tracking using audiovisual data	20040101	348/169
US 20030234519 A1	System or method for selecting classifier attribute types	20031225	280/728.1
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US 20030223053 A1	Methods and devices for charge management for three-dimensional and color sensing	20031204	356/5.1
US 20030222820 A1	Wireless location using hybrid techniques	20031204	342/457
US 20030219146 A1	Visual motion analysis method for detecting arbitrary numbers of moving objects in image sequences	20031127	382/103
US 20030217137 A1	Verified device locations in a data network	20031120	709/223
US 20030209893 A1	Occupant sensing system	20031113	280/735
US 20030203717 A1	Satellite based data transfer and delivery system	20031030	455/12.1
US 20030200024 A1	Multiple approach time domain spacing aid display system and related techniques	20031023	701/120
US 20030198378 A1	Method and system for 3D smoothing within the bound of error regions of matching curves	20031023	382/154
US 20030198377 A1	Method and system for 3D reconstruction of multiple views with altering search path and occlusion modeling	20031023	382/154
US 20030191719 A1	Systems and methods for secure transaction management and electronic rights protection	20031009	705/54
US 20030191568 A1	Method and system for controlling a vehicle	20031009	701/36
US 20030179922 A1	Apparatus and method for the construction of spatial representantions	20030925	382/153
US 20030163431 A1	Systems and methods for secure transaction management and electronic rights protection	20030828	705/64

US 20030161411 A1	Ultra wide bandwidth communications method and system	20030828	375/295
US 20030158795 A1	Quality management and intelligent manufacturing with labels and smart tags in event-based product manufacturing	20030821	705/28
US 20030155415 A1	Communication between machines and feed-forward control in event-based product manufacturing	20030821	235/376
US 20030154144 A1	Integrating event-based production information with financial and purchasing systems in product manufacturing	20030814	705/28
US 20030150909 A1	Quality management by validating a bill of materials in event-based product manufacturing	20030814	235/376
US 20030150908 A1	User interface for reporting event-based production information in product manufacturing	20030814	235/375
US 20030146871 A1	Wireless location using signal direction and time difference of arrival	20030807	342/457
US 20030134648 A1	Machine for providing a dynamic data base of geographic location information for a plurality of wireless devices and process for making same	20030717	455/456.1
US 20030127609 A1	Sample analysis systems	20030710	250/574
US 20030108334 A1	Adaptive environment system and method of providing an adaptive environment	20030612	386/95
US 20030108220 A1	Robust, on-line, view-based appearance models for visual motion analysis and visual tracking	20030612	382/103
US 20030105721 A1	Systems and methods for secure transaction management and electronic rights protection	20030605	705/54
US 20030103647 A1	Automatic detection and tracking of multiple individuals using multiple cues	20030605	382/103
US 20030095140 A1	Vision-based pointer tracking and object classification method and apparatus	20030522	345/700
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US 20030076484 A1	Systems for CMOS-compatible three-dimensional image sensing using quantum efficiency modulation	20030424	356/5.1
US 20030065260 A1	Identification and quantification of needle and seed displacement departures from treatment plan	20030403	600/427
US 20030058111 A1	Computer vision based elderly care monitoring system	20030327	340/573.1
US 20030052788 A1	Medical assistance and tracking system and method employing smart tags	20030320	340/573.1
US 20030040815 A1	Cooperative camera network	20030227	700/48
US 20030036835 A1	System for determining the occupancy state of a seat in a vehicle and controlling a component based thereon	20030220	701/45
US 20030035573 A1	Method for learning-based object detection in cardiac magnetic resonance images	20030220	382/128
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US 20020130775 A1	Electronic locating systems	20020919	340/540
US 20020112171 A1	Systems and methods for secure transaction management and electronic rights protection	20020815	713/185
US 20020084430 A1	Methods for CMOS-compatible three-dimensional image sensing using quantum efficiency modulation	20020704	250/559.05
US 20020070862 A1	Object tracking and management system and method using radio-frequency identification tags	20020613	340/572.1
US 20020059022 A1	System for determining the occupancy state of a seat in a vehicle and controlling a component based thereon	20020516	701/45
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1 **Tracking points and line segments in image sequences**
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2 **Effects of visual display separation upon primary and secondary task performances**
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43 **Visual tracking using Snake for object's discrete motion**
Won Kim; Ju-Jang Lee;
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[Abstract] [PDF Full-Text (444 KB)] **IEEE CNF**

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44 **Visual tracking using Snake based on target's contour information**
Won Kim; Ju-Jang Lee;
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[Abstract] [PDF Full-Text (449 KB)] **IEEE CNF**

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45 **Design and implementation of visual servoing system for realistic air target tracking**
Wei Guan Yau; Li-Chen Fu; Liu, D.;
Robotics and Automation, 2001. Proceedings 2001 ICRA. IEEE International Conference on , Volume: 1 , 2001
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[Abstract] [PDF Full-Text (540 KB)] **IEEE CNF**

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46 **Moving target tracking algorithm based on the confidence measure of motion vectors**
Jin-Sung Lee; Kwang-Yeon Rhee; Seong-Dae Kim;
Image Processing, 2001. Proceedings. 2001 International Conference on , Volume: 1 , 7-10 Oct. 2001
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47 **Mobile computing and industrial augmented reality for real-time data access**
Xiang Zhang; Genc, Y.; Navab, N.;
Emerging Technologies and Factory Automation, 2001. Proceedings. 2001 8th IEEE International Conference on , Volume: 2 , 15-18 Oct. 2001
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48 **Leaving on a plane jet**
Reznik, D.S.; Canny, J.F.; Alldrin, N.;
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[Abstract] [PDF Full-Text (562 KB)] **IEEE CNF**

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49 **Current status of the Varioscope AR, a head-mounted operating microscope for computer-aided surgery**
Figl, M.; Birkfellner, W.; Hummel, J.; Hanel, R.; Homolka, P.; Watzinger, F.; Wanshit, F.; Ewers, R.; Bergmann, H.;
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50 **Face and eye tracking algorithm based on digital image processing**
Perez, C.A.; Palma, A.; Holzmann, C.A.; Pena, C.;
Systems, Man, and Cybernetics, 2001 IEEE International Conference on , Volume: 2 , 7-10 Oct. 2001

Page(s): 1178 -1183 vol.2

[Abstract] [PDF Full-Text (550 KB)] **IEEE CNF**

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   Georg Kerkhoff. **Journal of Neurology, Neurosurgery and Psychiatry.** London: Jun 2000. Vol. 68, Iss. 6; p. 691 (16 pages)
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2. **Multiple object tracking and attentional processing**
   Christopher R Sears, Zenon W Pylyshyn. **Canadian Journal of Experimental Psychology.** Ottawa: Mar 2000. Vol. 54, Iss. 1; p. 1 (14 pages)
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3. **Investing wisely in Web-based training**
   Lisa Khatib. **Teleconference.** San Ramon: Mar/Apr 2000. Vol. 19, Iss. 2; p. 40 (1 page)
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4. **Media in performance: Interactive spaces for dance, theater, circus, and museum exhibits**
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5. **Measuring the effectiveness of bioptic telescopes for persons with central vision loss**
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6. **Visual navigation for the end user leverages the Hyperbolic Tree**
   Ramana Rao. **HP Chronicle.** Austin: Dec 1999. Vol. 17, Iss. 1; p. 1 (2 pages)
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   Full text | Page Image - PDF | Citation

8. **MapInfo and InterGis Announce New Release of Multi-User Logistics Management and Routing Solution; Companies to Jointly Market Visual Control Room 3.0**
   Business/Technology Editors. **Business Wire.** New York: Jul 26, 1999. p. 1
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9. **The mapmaking mind**
   Marcia Barinaga. **Science.** Washington: Jul 9, 1999. Vol. 285, Iss. 5425; p. 189 (3 pages)
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Mary M Smyth, Patrick Haggard. **British Journal of Psychology.** London: May 1999. Vol. 90; p. 243 (4 pages)
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13. Image sensor tracks moving objects in hardware
R Colin Johnson. **Electronic Engineering Times.** Manhasset: Apr 5, 1999. p. 61 (1 page)
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14. Object/FX Corporation Offers Internet Access to All Major Sources of Map Data Through Partnership With Global Geomatics Inc.
Business Editors. **Business Wire.** New York: Mar 15, 1999. p. 1
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15. Evaluation of the NINCDS-ADRDA criteria in the differentiation of Alzheimer's disease and frontotemporal dementia
A R Varma, J S Snowden, J J Lloyd, P R Talbot, et al. **Journal of Neurology, Neurosurgery and Psychiatry.** London: Feb 1999. Vol. 66, Iss. 2; p. 184 (5 pages)
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James C Spohrer. **IBM Systems Journal.** Armonk: 1999. Vol. 38, Iss. 4; p. 602 (27 pages)
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Todd D. Hodes, Randy H. Katz. **Wireless Networks.** Amsterdam: 1999. Vol. 5, Iss. 5; p. 411
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Anonymous. **Insurance & Technology.** New York: Oct 1998. Vol. 23, Iss. 10; p. 37 (1 page)
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19. New frontiers in visual search: An exploratory study in live tennis situations
Robert N Singer, A Mark Williams, Shane G Frehlich, Christopher M Janelle, et al. **Research Quarterly for Exercise and Sport.** Washington: Sep 1998. Vol. 69, Iss. 3; p. 290 (7 pages)
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20. Arch Communications, Nation's Second Largest Wireless Paging Company, Selects Novera's Jbusiness
Business/Technology Editors. **Business Wire.** New York: Aug 24, 1998. p. 1
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22. **Collaborative visioning: Proceed with caution!: Results from evaluating Atlanta's Vision 2020 project**
Amy Helling. **American Planning Association. Journal of the American Planning Association.** Chicago: Summer 1998. Vol. 64, Iss. 3; p. 335 (15 pages)
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23. **The impact of auditory enhancement of a user interface on decision making: An experimental study**
Easwar A Nyshadham. **The Journal of Computer Information Systems.** Stillwater: Summer 1998. Vol. 38, Iss. 4; p. 100 (8 pages)
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Michael A Magsig, John T Snow. **Monthly Weather Review.** Washington: Jun 1998. Vol. 126, Iss. 6; p. 1430 (20 pages)
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Franca Tamisari. **Oceania.** Sydney: Jun 1998. Vol. 68, Iss. 4; p. 249 (22 pages)
Full text Page Image - PDF Abstract

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Michael S A Graziano, Xin Tian Hu, Charles G Gross. **Science.** Washington: Jul 11, 1997. Vol. 277, Iss. 5323; p. 239 (3 pages)
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John A Fugel. **Rural Telecommunications.** Washington: Mar/Apr 1997. Vol. 16, Iss. 2; p. 76 (4 pages)
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30. **Visual attention: Control, representation, and time course**
Egeth, Howard E, Yantis, Steve. **Annual Review of Psychology.** Palo Alto: 1997. Vol. 48; p. 269 (29 pages)
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Schwartz, Susana. **Insurance & Technology.** New York: Jan 1997. Vol. 22, Iss. 1; p. 32 (3 pages)
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32. Patterns of motor impairment in normal aging, mild cognitive decline, and early Alzheimer's disease
Kluger, Alan, Gianutsos, John G, Golomb, James, Ferris, Steven H, et al. **The Journals of Gerontology.** Washington: Jan 1997. Vol. 52B, Iss. 1; p. P28 (12 pages)
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Desmond Dearlove. **The Times.** London (UK): Oct 7, 1996. p. 1
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DANIEL GOLEMAN 1995, The New York Times. **Times - Picayune (pre-1997 Fulltext).** New Orleans, La.: May 2, 1995. p. A.2
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Grimson, W E L, Mundy, J L. **Association for Computing Machinery. Communications of the ACM.** New York: Mar 1994. Vol. 37, Iss. 3; p. 44 (8 pages)
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37. MetaTorch: A universal seam tracking system for arc welding and similar applications
Kolbl, Wolfgang. **The Industrial Robot.** Bedford: 1994. Vol. 21, Iss. 3; p. 33 (3 pages)
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A Bayesian Computer Vision System for Modeling Human.. - Oliver, Rosario, Pentland (1999) (Correct) (20 citations)
at CVPR'98, Workshop on Interpretation of **Visual** Motion To Appear in Proceedings of ICVS'99,
vision system to detect and segment a moving **object** -human or car, for example -and a higher
An Extended Kalman filter **tracks** the **objects location**, coarse shape, color pattern, and velocity. This
whitechapel.media.mit.edu/pub/tech-reports/TR-459.ps.Z

One or more of the query terms is very common - only partial results have been returned. Try Google (RI).

Gesture Recognition Using the Perseus Architecture - Kahn, Swain, Prokopowicz, Firby (1996) (Correct) (25 citations)
of techniques to reliably solve this complex **visual** problem in non-engineered worlds. Knowledge about
It is far easier and more accurate to point to an **object** than give a verbal description of its **location**.
www.cs.uchicago.edu/~swain/pubs/CVPR96-Perseus.ps.Z

Recognizing Hand Gestures Using Motion Trajectories - Yang, Ahuja (2000) (Correct) (4 citations)
The algorithm is used to recognize dynamic **visual** processes based on spatial, photometric and
for extracting two-dimensional motion fields of **objects** across a video sequence and classifying each as
is interpreted based on, for example, hand **location**, shape, and motion. The performance of the
uirvli.ai.uiuc.edu/mhyang/papers/cvpr99.ps.gz

Real-time Vision-Based Camera Tracking for.. - Koller, Klinker.. (1997) (Correct) (13 citations)
to work with and examine real 3D **objects** while **visual**ly receiving additional computer-based information
computer generated data (e.g.graphics of virtual **objects**)This poses two major problems: a) determining
and dynamically estimating the 3D camera **location**. We utilize fully automated landmark-based
vision.caltech.edu/koller/Papers/cvpr-97.ps.gz

Automatic Text Detection and Tracking in Digital Video - Li, Doermann, Kia (1998) (Correct) (9 citations)
with a small number of keyword descriptors after **visual** inspection by a human reviewer. Unfortunately,
Consortium, are producing standards which are **object**-based. Within these standards video can be
For example, sports scores, product names, scene **locations**, speaker names, movie credits, program
documents.cfar.umd.edu/LAMP/Media/Publications/Papers/huiping98b/Text2.ps.Z

Visually Controlled Graphics - Azarbayejani, Starner, Horowitz.. (1993) (Correct) (24 citations)
Report #180 Appears In Ieee Pami 15 (6)June 1993 **Visual**ly Controlled Graphics A. Azarbayejani, T.
recover the six rigid-body motion parameters of an **object** from a small set of **track**ed **visual** feature
and a measurement model relating image feature **locations** to motion parameters. Additionally, some
whitechapel.media.mit.edu/pub/tech-reports/TR-180.ps.Z

Confluence of Computer Vision and Interactive Graphics for.. - Klinker (1997) (Correct) (11 citations)
or the task at hand. By exploiting people's **visual** and spatial skills, AR brings information into
interact with a combination of real and virtual **objects** in a natural way. This paradigm constitutes the
vision.caltech.edu/koller/Papers/presence-draft.ps.gz

Visual Gesture Recognition - Davis, Shah (1994) (Correct) (16 citations)
To Appear In Vision, Image And Signal Processing. **Visual** Gesture Recognition James Davis And Mubarak
as a means of communication, e.g.pointing to an **object** to bring someone's attention to the **object**,
Using stereo images, their system uses the 3-D **location** of fingers rather than the 2-D **location**. The
www-white.media.mit.edu/people/jdavis/OldPapers/visp.ps.Z

Face Locating and Tracking for Human-Computer Interaction - Hunke, Waibel (1994) (Correct) (15 citations)
communication involves both auditory and **visual** modalities, providing robustness and naturalness
shape and color. In addition, if movement of an **object** is detected, this information is used
a known face in a restricted area around the last **location**. During **track**ing the system learns features of
werner.ira.uka.de/papers/multimodal/94.acssc.ps.gz

Incremental Focus of Attention for Robust Visual Tracking - Toyama, Hager (1996) (Correct) (11 citations)
Incremental Focus of Attention for Robust **Visual Track**ing Kentaro Toyama and Gregory D. Hager
further attention. For example, if the target **object** is a falling apple, one layer of the framework
to return approximate information on feature **location** or configuration. 1 Introduction Robustness
www.cs.yale.edu/HTML/YALE/CS/HyPlans/toyama/layered.ps.gz

Single Lens Stereo with a Plenoptic Camera - Adelson, Wang (1992) (Correct) (16 citations)
of a cone of light that Leonardo called a "**visual** pyramid.The space surrounding an **object** is
optical structure, one can infer the depths of **objects** in the scene, i.e.one can achieve "single lens
that would be seen by a pinhole camera at a given **location**. a) b) c) d) Fig. 2. a) Pinhole camera
www-bcs.mit.edu/people/adelson/./publications/postscript/plenoptic.ps.Z

Dynamic registration Corrections in Augmented-Reality Systems - Bajura, Neumann (1995) (Correct) (9 citations)
This paper addresses the problem of correcting **visual** registration errors in video-based
registration between real and computergenerated **objects** in combined images is critically important for
ing system and specifies the **location** of a **track**ing element's position on the user's
usc.edu/pub/graphics/papers/vrais.ps.Z

Virtual Notepad: Handwriting in Immersive VR - Poupyrev, Tomokazu, Weghorst (1998) (Correct) (4 citations)
This virtual pen provides the user with a constant **visual** reference for the **location** of the entry point. As
the user to add audio annotations to virtual **objects**. Annotations are represented as a small marker
the user with a constant **visual** reference for the **location** of the entry point. As the user draws on the
www.hitl.washington.edu/publications/r-97-46/r-97-46.ps

A System for Automated Site Model Acquisition - Collins, Jaynes, Stolle.. (1995) (Correct) (7 citations)
the model to be overlaid on the image to aid **visual** change detection and verification of expected
and manipulating images, camera models, **object** models and terrain models, and for keeping **track**
and X-Y coordinates represent their horizontal **location** in the site. 2.3 Camera models For each image
vis-ftp.cs.umass.edu/Papers/collins/spie95.ps.gz

Face Tracking and Pose Representation - McKenna, Collins (1996) (Correct) (7 citations)
depth. Principal components analysis was used to **visual**ise the manifolds described by pose changes.
system based on an integrated motion-based **object track**ing and model-based face detection
produces a zero-crossing in S(x y t) at the **location** of the edge in the middle frame of the "history"
www.dcs.qmw.ac.uk/research/vision/articles/bmvc2.ps.gz

Nonparametric Recognition of Nonrigid Motion - Polana, Nelson (1995) (Correct) (7 citations)
sequences are described. 1 Introduction **Visual** motion has long been considered a vital source of
the sources of different motions, identifying **objects** moving relative to the surrounding environment,
ftp.cs.rochester.edu/pub/papers/robotics/95.tr575.Nonparametric_recognition_of_nonrigid_motion.ps.gz

Real-Time Hand Tracking and Gesture Recognition Using Smart Snakes - Heap (1995) (Correct) (6 citations)
hand and recognise any gestures made, using only **visual** input, is taken entirely for granted by humans,
model that can be used to **track** any 2D deformable **object**. 1 Introduction Our hands play a very important
can be projected onto an image by specifying its **location**, in terms of scale s, rotation `x-translation
ftp.orl.co.uk/pub/docs/ORL/tr.95.1.ps.Z

Tracking Human Motion Using Multiple Cameras - Cai, Aggarwal (1996) (Correct) (6 citations)
(um v m)uN vN)T As for the **visual** features, we use an N dimensional feature vector
a fixed camera [1, 2] to **track**ing non-background **objects** in a single moving camera [3]The studies in

frames taken by cameras mounted in various **locations**. Experimental results from real data show the
rhine.ece.utexas.edu/pub/papers/icpr96_cai.ps.Z

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Computer-Aided Image-Guided Bone Fracture Surgery: Modeling, .. - Tockus Joskowicz (1998) (Correct) (3 citations)
Image-Guided Bone Fracture Surgery: Modeling, **Visual**ization, and Preoperative Planning L. Tockus
is used to provide accurate, real-time spatial **object** positions with optical cameras following infrared
the surgeon must mentally reconstruct the **location** of the parts in space and time, manipulate the
www.cs.huji.ac.il/~josko/system98.ps

Learning, Positioning, and Tracking Visual Appearance - Shree Nayar (1994) (Correct) (6 citations)
Learning, Positioning, and **Track**ing **Visual** Appearance Shree K. Nayar, Hiroshi Murase, and
determining the mapping between robot position and **object** appearance. The robot is first moved through
either automatically position itself at a desired **location** with respect to an **object**, or accurately follow
ftp.cs.columbia.edu/pub/CAVE/papers/nayar/nayar-murase-nene-track_icra-94.ps.gz

Understanding People Pointing: The Perseus System - Kahn, Swain (1995) (Correct) (5 citations)
In this paper we present Perseus, a purposive **visual** system used by our robot, CHIP, to locate **objects**
visual system used by our robot, CHIP, to locate **objects** being pointed at by people. Perseus uses
Providing a verbal description of the trash's **location** to CHIP is awkward it is far more natural to
cs-www.uchicago.edu/~kahn/Papers/postscript/iscv95.ps

Finger Tracking as an Input Device for Augmented Reality - James Crowley (1995) (Correct) (5 citations)
Abstract This paper concerns techniques for **visual track**ing of pointing devices. The first section
evolution. The barrier between physical **objects** (paper, pencils, calculators) and their
provides a method in which the most probable **location** of the pointing device is determined by
pandora.imag.fr/Prima/jlc/FG95.ps.gz

Tracking Faces - McKenna, Gong (1996) (Correct) (5 citations)
approaches depend on a robust method for grouping **visual** motions consistently over time [10]They tend to
and a temporally consistent list of moving **objects** was maintained. **Objects** were **track**ed using
a temporal zero-crossing in S(x, y, t) at the **location** of the edge in the middle frame of the "history"
www.dcs.qmw.ac.uk/research/vision/articles/iwafgr-tracking.ps.gz

An Intelligent Observer - Becker Gonz'alez-Ba (1995) (Correct) (5 citations)
performs its tasks, the system provides real-time **visual** feedback to the user. We have implemented a
one or more cameras which allow it to **track objects** while at the same time sensing its own **location**.
objects while at the same time sensing its own **location**. It interacts with a human user who issues
robotics.stanford.edu/~hhg/doc/iser95/iser95.ps.gz

Highlight and Reflection-Independent Multiresolution.. - Ofek, Shilat.. (1997) (Correct) (3 citations)
that texture maps are essential for adding to the **visual** content of the rendered image. Extraction of
distortions 2) it can extract textures from **objects** with any known 3-D geometric structure
when the texture is fixed in an inconvenient **location** (e.g. on the outside)when illumination
www.cs.huji.ac.il/papers/IP/multiresolution-texture.ps.gz

Providing a Low Latency User Experience in a High Latency.. - Conner, Holden (1997) (Correct) (3 citations)
Center for Computer Graphics and Scientific **Visual**ization Providence, RI 02912 lsh@cs.brown.edu
motion or derivative information provided by an **object** itself, the dead reckoning system calculates the
a continuous motion, not a discrete change of **location**. Other work has developed techniques for
www.cs.brown.edu/research/graphics/research/pub/papers/i3d97-blurghost/i3d96.ps.gz

Recognizing Hand Gestures - Davis, Shah (1994) (Correct) (5 citations)
(SFM) method in which the 3-D **visual** interpretation of hand gestures is used in a

as a means of communication, e.g.pointing to an **object** to bring someone's attention to the **object**,
Using stereo images, their system uses the 3-D **location** of fingers rather than the 2-D **location**. The
vismod.www.media.mit.edu/~jdavis/OldPapers/eccv.ps.Z

A Continuous Media Transport and Orchestration Service - Andrew Campbell (1992) (Correct) (7 citations)
have been implemented including an audio/**visual** telephone and a video disc jockey console. 3.
and transport services are integrated into an **object**-based distributed multimedia application
type (ADT) interfaces which are accessed ina# **location** independent fashion. Invocation is implemented#
www.cs.uit.no/~weihai/MMsem.v97/pensum/Campbell.ps

Coordination of perceptual processes for Computer.. - Coutaz, Bérard, Crowley (1996) (Correct) (4 citations)
face **track**ing, data fusion, integration of **visual** processes, media space. 1. Introduction Computer
a result, peripheral awareness of distant people, **objects**, and events is lost. In addition, the static
(e.g.Vphone and exploration of a distant **location** such as a public area using a virtual window)
iihm.imag.fr/publs/1996/FG96_Comedi.ps.gz

Tracking Objects By Color Alone - Rasmussen, Toyama, Hager (1996) (Correct) (4 citations)
devices. 1 Introduction **Track**ing is a common **visual** task with many uses. By maintaining focus on
Tracking **Objects** By Color Alone Christopher Rasmussen, Kentaro
with minimal specularity or choosing color sample **locations** on them away from specularities, we have found
www.cs.yale.edu/HTML/YALE/CS/HyPlans/rasmussen/lib/papers/rr1114.ps.gz

The Visual Display Transformation for Virtual Reality - Robinett, Holloway (1995) (Correct) (4 citations)
Ent S I G I L L Um Lux Libertas The **Visual** Display Transformation For Virtual Reality Warren
series of transformations used to map points from **object** coordinates to screen coordinates. Virtual
the HMD is called the user, and also has a **location** and orientation within the virtual world. A good
cs.ru.ac.za/homes/g97rc001/papers/94-031.ps.gz

Security of Web Browser Scripting Languages: Vulnerabilities.. - Anupam, Mayer (1998) (Correct) (2 citations)
scripting language that looks a lot like **Visual** Basic. It is loosely typed and **object** based. It
to refer to both strains.JavaScript is **object**-based in the sense that it uses built-in and user
document when it is loaded by the browser. The **location object** represents the URL of the current
www.bell-labs.com/user/alain/papers/usenix98.ps.gz

W4: Who? When? Where? What? A Real Time System for.. - Haritaoglu, Harwood.. (1998) (Correct) (2 citations)
Park, MD 20742 Abstract W 4 is a real time **visual** surveillance system for detecting and **track**ing
determine types of interactions between people and **objects**, and to overcome the inevitable errors and
occupancy overlap tests between the predicted **locations** of **objects** and the **locations** of detected
www.umiacs.umd.edu/users/lsd/vsam/fg98.ps.gz

Using the CONDENSATION Algorithm for Robust.. - Dellaert, Burgard.. (1999) (Correct) (1 citation)
to globally localize the camera platform, given a **visual** map of the environment. Based on these two
of the camera platform rather than **track**ing an **object** in the scene. In addition, it can also be used to
as well as **track**ing the robot's position once its **location** is known. Vision has long been advertised as
www.ri.cmu.edu/pub_files/pub1/dellaert_frank_1999_1/dellaert_frank_1999_1.ps.gz

Starfield Information Visualization with Interactive Smooth.. - Ninad Jog (1995) (Correct) (3 citations)
1 Starfield Information **Visual**ization with Interactive Smooth Zooming Ninad
through a space -say a world of 3-D graphical **objects** as in virtual reality applications, or in an
- thereby making the starfield display a map of **locations**. Other databases exploit the starfield display
ftp.cs.umd.edu/pub/papers/papers/ncstrl.umcp/CS-TR-3286/CS-TR-3286.ps.Z

A Self-organizing Neural Network Architecture for.. - Cameron, Grossberg.. (1995) (Correct) (3 citations)
1995 3 1. Introduction: Optic Flow, Heading, and **Visual** Navigation As we move through the world, we
of heading, scene depth, and moving **object locations**. These representations are used to
of heading, scene depth, and moving **object locations**. These representations are used to reactively
cns-web.bu.edu/~guenther/cameron_grossberg_guenther_article.ps.Z

A Modular Visual Tracking System - Wessler (1995) (Correct) (3 citations)
A Modular **Visual Track**ing System by Mike Wessler A.B.Harvard
: 20 2.1.3 **Object** recognition (What"
www.ai.mit.edu/people/wessler/main.ps.Z

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Reflection of Presence: Toward more natural and.. - Agamanolis, Westner, .. (1997) (Correct) (2 citations)
looking at each other through a real mirror. Using **visual** and auditory cues, segmented images of
and collaboratively manipulate and annotate media **objects** in the background. The system is novel in that
even though they are all in separate remote **locations**. However, instead of seeing a reflection of
dsmall.www.media.mit.edu/~vmb/papers/spie97stefan.ps.Z

Velocity and Disparity Cues for Robust Real-Time Binocular.. - Rougeaux, Kuniyoshi (1997) (Correct) (2 citations)
found in the primary functions of biological **visual** systems to robustly **track** moving targets in
algorithm quickly locates independently moving **objects** for target acquisition and provides a reliable
to adapt the horopter geometry to the target **location**. The system takes advantage of the optical
www.etl.go.jp:8080/etl/robotics/Projects/Humanoid/postscript/cvpr_97.ps.gz

Controlled Active Exploration of Uncalibrated Environments - Smith, Brandt.. (1994) (Correct) (3 citations)
Of the sensors available to a robotic agent, **visual** sensors provide information that is richer and
with little or no a priori knowledge of the **object**- and camerarelated parameters to robustly
of the controller indicates as the possible **location** of the minimum. In the general case, search time
www.cs.colorado.edu/~sbrandt/papers/CVPR94.ps.Z

Holographic stereograms as discrete imaging systems - Halle (1994) (Correct) (3 citations)
the huge amount of information needed to produce a **visual**ly acceptable three-dimensional image. Because of
Ma 02139 Usa Abstract Unlike Holograms Of Real **Objects**, Holographic Stereograms Consist Of Information
used by humans to determine the three-dimensional **location** of an **object**. If a single image of the point is
ftp.media.mit.edu/pub/halazar/discrete-preprint.ps.Z

Mediated reality - Mann (1994) (Correct) (3 citations)
desire to take away, alter, or more generally to **visual**ly `mediate' real **objects**, using a body-worn
intent of Augmented Reality (AR) is to add virtual **objects** to the real world. A typical AR apparatus
www.wearcam.org/mediatedreality/TR-260.ps.gz

A Parallel Approach to Tracking Edge Segments in Dynamic Scenes - Mirmehdi, Ellis (1991) (Correct) (4 citations)
(AGV)The aim of this project is to provide **visual** input to the vehicle control system to aid
are in the **track**ing and identification of discrete **objects** moving through the scene, and in estimating the
visual input to the vehicle control system to aid **location** and navigation. The current system is targetted
www.cs.bris.ac.uk/Tools/Reports/Ps/mirmehdi-ivc93.ps.gz

Video-Rate Z Keying: A New Method for Merging Images - Kanade, Oda, Yoshida.. (1995) (Correct) (2 citations)
merging real and synthetic images in real time. In **visual** media communication and display, it is often
Chroma keying, however, simply puts real world **objects** in the foreground of the synthetic image, and
by using a computer vision technique to **track** the **location** of a human **object** [4]These systems, however,
www.cs.cmu.edu/afs/cs/project/stereo-machine/www/95-38.ps.gz

Inductive Learning of Feature-Tracking Rules for Scientific.. - Arunava Banerjee (1995) (Correct) (2 citations)
Learning of Feature-**Track**ing Rules for Scientific **Visual**ization Arunava Banerjee Haym Hirsh Thomas Ellman
in a more efficient system that can match up **objects** across large time steps without inspecting
if each of O 1 O n are close to the **location** of O as well as to one another and the sum of
www.cs.rutgers.edu/~arunava/papers/ijcai95.ps.Z

Keeping Your Eye on the Ball: Tracking Occluding Contours of.. - Toyama, Hager (1995) (Correct)

(2 citations)
P.O. Box 208285 New Haven, CT 06520 Abstract **Visual tracking** is prone to distractions, where
Ball: **Track**ing Occluding Contours of Unfamiliar **Objects** without Distraction Kentaro Toyama and Gregory
dynamic models can be used to predict feature **location** [2, 3, 9]In constraintbased **track**ing, no
ftp.cs.yale.edu/WWW/HTML/YALE/CS/HyPlans/toyama/papers/iros95short.ps.gz

Characterization of the Spatial Frequency Spectrum in Perception .. - Ko Sakai (1995) (Correct) (2 citations)
frequency spectrum [3]We propose that the **visual** system uses a strategy of characterizing the
the most important **visual** cues to the shape of an **object** is the orderly change in texture that occurs as a
by determining the peak frequency at each spatial **location**, and then averaging these frequency values over
www.neuroengineering.upenn.edu/papers/ko/sakai_finkel.josa_1995.ps.gz

From Gaze to Focus of Attention - Stiefelhagen, Finke, Yang, Waibel (1998) (Correct) (1 citation)
not only use verbal means, but also a variety of **visual** cues for communication. For example, people use
focus of attention. The knowledge of a person's **object** of interest helps us effectively communicate with
persons head movements as well as the relative **locations** of probable targets of interest in a room. Over
www.is.cs.cmu.edu/papers/multimodal/PUI98/PUI98-rainer.ps.gz

Joint Probabilistic Techniques for Tracking Multi-Part Objects - Christopher Rasmussen (1998) (Correct) (1 citation)
objects such as people and cars comprise many **visual** parts and attributes, yet image-based **track**ing
Probabilistic Techniques for **Track**ing Multi-Part **Objects** Christopher Rasmussen Gregory D. Hager Center
of the head can be derived from the shirt's image **location** and scale. If the person walks behind a piece of
ftp.cs.yale.edu/WWW/HTML/YALE/CS/HyPlans/rasmussen/lib/papers/cvpr98.ps.gz

Real-Time Visual Tracking Using Correlation Techniques - Eklund, Ravichandran.. (1994) (Correct) (2 citations)
Real-Time **Visual Track**ing Using Correlation Techniques Mark W.
and does not rely on a previous model of the **object** the training image for filter synthesis is
sneezy.sri.com/~ravi/Papers/wacv-TRACK.ps

An Integrated Traffic and Pedestrian Model-Based.. - Remagnino, Baumberg.. (1997) (Correct) (1 citation)
integrated vision system in which two autonomous **visual** modules are combined to interpret a dynamic
employs a 3D model-based scheme to **track** rigid **objects** such as vehicles. The second module uses a 2D
its orientation and then its ground plane (GP) **location** .In the following, we outline our solutions to
www.cvg.cs.reading.ac.uk/papers/ps/CVG9702.ps.gz

Video Motion Capture - Bregler, Malik (1997) (Correct) (1 citation)
of the person whose motion is to be captured. For **visual track**ing we introduce the use of a novel
is very challenging, compared to **track**ing other **objects** such as footballs, robots or cars. These
T describes the pixel displacement dependent on **location** (x y) and model parameters OE. For example, a
http.cs.berkeley.edu/~bregler/bregler_malik_muy.ps.gz

GARGOYLE: Context-sensitive active vision for mobile robots - Prokopowicz, Firby, Kahn, .. (1996) (Correct) (1 citation)
and performance: on-the-AEy conguration of **visual** routines that exploit up-to-the-second context
For example, the **visual** routine for nding **objects** by shape uses a color model of the **object** to
restriction of viewpoint search based on image **location** may ameliorate the inherent combinatorics of
www.cs.uchicago.edu/~kahn/Papers/postscript/icpr96.ps

A Visually Oriented Representation of Planar Relative Position - Jean-Marc Odobez (1996) (Correct) (1 citation)
A **visual**ly oriented representation of planar relative
the position of a camera with respect to an **object** (more precisely, two points of an **object**)It is
from a known position in the world, the current **location** of the robot is computed using odometry.
ftp.cis.upenn.edu/pub/grasp/technical-reports/401.ps.gz

Plan Representations for Picking Up Trash - Firby, Prokopwicz, Swain (1995) (Correct) (1 citation)
trash cleanup task breaks down naturally as: ffl **Visual** skills for nding and identifying trash and for

are used to pick up trash: find-small-floor-**object** uses fuzzy classication to identify segmented the **object**. Both nding skills set the target-**location** with an (x y) coordinate for the desired target
www.cs.uchicago.edu/pub/users/peterp/ictai95.ps.Z

Model-based vehicle detection and classification.. - Sullivan, Baker.. (1996) (Correct) (1 citation)
to simplify our previous model-based methods for **visual tracking** of vehicles for use in a real-time at highly predictable traffic flow. A major **objective** is to develop automatic means to detect, 1,000 points and needs to be evaluated at all **locations** covering some image region. The approach is
www.cvg.cs.reading.ac.uk/papers/ps/BMVC96_crc.ps.gz

Detecting, localizing and grouping repeated scene elements.. - Leung, Malik (1996) (Correct) (1 citation)
in an iconic matching scheme to provide another **visual** cue for recognition. 2 Relevant previous work this representation good for? The two short term **objectives** are: 1. Grouping of these repeated elements map that best transforms the image patch at one **location** to the other. The approach we propose consists
www.cs.berkeley.edu/~leungt/Research/ECCV96_final.ps.gz

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